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DPW/41 1631/8

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June 11, 2004

Via Express Mail

MS Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Re: U.S. Patent Application No.: 09/745920
For: *METHODS AND APPARATUS FOR MASS FINGERPRINTING OF BIOMOLECULES*
Inventor: PARKER, Kenneth C.
Filed: December 21, 2000
Our Ref. No.: SY9-155

Dear Sir:

I enclose herewith for filing in the above-identified application the following:

1. Supplemental Information Disclosure Statement;
2. PTO Form SB/08;
3. Copies of publications cited in PTO Form SB/08 (31);
4. A Return Postcard.

Please charge the necessary fees in connection with the enclosed statement to our Deposit Order Account No. 12-0080. For this purpose, a duplicate of this sheet is attached.

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Date of Deposit June 11, 2004

I hereby certify that this transmittal letter and the papers referred to as being enclosed therein are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to MS Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450


Signature

Michael J. Bastian, Esq.
Express Mail Signer

Respectfully submitted,
LAHIVE & COCKFIELD, LLP


Michael J. Bastian, Esq.
Registration No. 47,411
Attorney for Applicant



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the application of: PARKER, Kenneth C.

Serial No.: 09/745920

Filed: December 21, 2000

For: *METHODS AND APPARATUS FOR MASS
FINGERPRINTING OF BIOMOLECULES*

Attorney Docket No.: SY9-155

Group Art Unit: 1631

Examiner: Smith, Carolyn L.

MS Amendment
Commissioner for Patents
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Michael J. Bastian, Esq.

Please Print Name of Person Signing

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT


Dear Sir:

Applicant and his Attorney are aware of the following additional publications, listed on the attached PTO Form SB/08, and in accordance with 37 CFR §1.97 hereby submit these publications for the Examiner's consideration. A copy of each cited document is enclosed.

This statement is not to be interpreted as a representation that the cited publications are material, that an exhaustive search has been conducted, or that no other relevant information exists. Nor shall the citation of any publication herein be construed *per se* as a representation that such publication is prior art. Moreover, the Applicant understands that the Examiner will make an independent evaluation of the cited publications.

In accordance with 37 CFR §1.97(c)(2) and §1.17(p), please charge the \$180.00 submission fee to our Deposit Order Account No. 12-0080. Please charge any necessary additional fees or credit any overpayments to our Deposit Order Account No. 12-0080.

Respectfully submitted,
LAHIVE & COCKFIELD, LLP



Michael J. Bastian, Esq.
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Date: June 11, 2004

MJB/kvj
Enclosures



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Substitute for form 1449A/B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Complete if Known	
				Application Number	09/745920
				Filing Date	December 21, 2000
				First Named Inventor	PARKER, Kenneth C.
				Art Unit	1631
				Examiner Name	Smith, Carolyn L.
Sheet	1	of	3	Attorney Docket Number	SY9-155

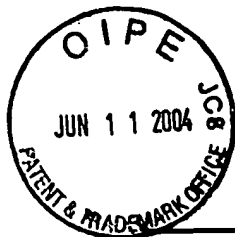
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Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	A2	5,538,897	07-23-1996	Yates III <i>et al.</i>	

FOREIGN PATENT DOCUMENTS						
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	C5	Anderegg <i>et al.</i> "Correction of the cDNA-derived protein sequence of prostatic spermine binding protein: pivotal role of tandem mass spectrometry in sequence analysis." <i>Biochemistry</i> . 1988 Jun 14;27(12):4214-21.	
	C6	Bartels <i>et al.</i> "Fast algorithm for peptide sequencing by mass spectroscopy." <i>Biomedical and Environmental Mass Spectrometry</i> 19:363-368 (1990).	
	C7	Biemann <i>et al.</i> "Characterization by tandem mass spectrometry of structural modifications in proteins." <i>Science</i> . 1987 Aug 28;237(4818):992-8.	
	C8	Biemann "Mass spectrometry of peptides and proteins." <i>Annu Rev Biochem.</i> 1992;61:977-1010.	
	C9	Biemann "Sequencing of peptides by tandem mass spectrometry and high-energy collision-induced dissociation." <i>Methods Enzymol.</i> 1990;193:455-79.	
	C10	Falick <i>et al.</i> "Low-mass ions produced from peptides by high-energy collision-induced dissociation in tandem mass spectrometry." <i>J. Am. Soc. Mass Spectrom.</i> 4:882-893 (1993).	
	C11	Griffin <i>et al.</i> "The amino acid sequence of the sex steroid-binding protein of rabbit serum." <i>J Biol Chem.</i> 1989 Nov 15;264(32):19066-75.	
	C12	Hamm <i>et al.</i> "Peptide sequencing program." <i>Comput Appl Biosci.</i> 1986 Jun;2(2):115-8.	
	C13	Henderson <i>et al.</i> "HLA-A2.1-associated peptides from a mutant cell line: a second pathway of antigen presentation." <i>Science</i> . 1992 Mar 6;255(5049):1264-6.	
	C14	Hines <i>et al.</i> "Pattern-based algorithm for peptide sequencing from tandem high energy collision-induced dissociation mass spectra." <i>J. Am. Soc. Mass Spectrom.</i> 3:326-336 (1992).	
	C15	Hunt <i>et al.</i> "Protein sequencing by tandem mass spectrometry." <i>Proc Natl Acad Sci U S A.</i> 1986 Sep;83(17):6233-7.	

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				Application Number	09/745920
				Filing Date	December 21, 2000
				First Named Inventor	PARKER, Kenneth C.
				Art Unit	1631
				Examiner Name	Smith, Carolyn L.
Sheet	2	of	3	Attorney Docket Number	SY9-155

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	C16	Ishikawa <i>et al.</i> "Computer-aided peptide sequencing by fast atom bombardment mass spectrometry." <i>Biomedical and Environmental Mass Spectrometry</i> . 13:373-80 (1986).		
	C17	Ishikawa <i>et al.</i> "Sequence determination of unknown cyclic peptide antibiotics by fast atom bombardment mass spectrometry." <i>Biomedical and Environmental Mass Spectrometry</i> 19:395-399 (1990).		
	C18	James <i>et al.</i> "Protein identification by mass profile fingerprinting." <i>Biochemical and biophysical research communications</i> 195(1):58-64 (1993).		
	C19	Johnson <i>et al.</i> "Computer program (SEQPEP) to aid in the interpretation of high-energy collision tandem mass spectra of peptides." <i>Biomed Environ Mass Spectrom</i> . 1989 Nov;18(11):945-57.		
	C20	Johnson <i>et al.</i> "The primary structure of thioredoxin from <i>Chromatium vinosum</i> determined by high-performance tandem mass spectrometry." <i>Biochemistry</i> . 1987 Mar 10;26(5):1209-14.		
	C21	Johnson <i>et al.</i> "Amino acid sequence of thioredoxin isolated from rabbit bone marrow determined by tandem mass spectrometry." <i>J Biol Chem</i> . 1988 Jul 15;263(20):9589-97.		
	C22	Johnson "Determination of peptide and protein structure by tandem mass spectrometry." pp.1-361 Diss. Massachusetts Institute of Technology, Cambridge (1988).		
	C23	Johnson <i>et al.</i> "Sequence analysis of peptide mixtures by automated integration of Edman and mass spectrometric data." <i>Protein Science</i> 1:1083-91 (1992).		
	C24	Kaur <i>et al.</i> "Characterization of structural xenobiotic modifications in proteins by high sensitivity tandem mass spectrometry. Human hemoglobin treated in vitro with styrene 7,8-oxide." <i>J Biol Chem</i> . 1989 Oct 15;264(29):16981-4.		
	C25	Kokame <i>et al.</i> "Lipid modification at the N terminus of photoreceptor G-protein alpha-subunit." <i>Nature</i> . 1992 Oct 22;359(6397):749-52.		
	C26	Leef <i>et al.</i> "MacProMass: a computer program to correlate mass spectral data to peptide and protein structures." <i>Biomedical and Environmental Mass Spectrometry</i> 19:639-45 (1990).		
	C27	Mann <i>et al.</i> "Error-tolerant identification of peptides in sequence databases by peptide sequence tags." <i>Anal Chem</i> . 1994 Dec 15;66(24):4390-9.		
	C28	Neubert <i>et al.</i> "The rod transducin alpha subunit amino terminus is heterogeneously fatty acylated." <i>J Biol Chem</i> . 1992 Sep 15;267(26):18274-7.		
	C29	Sakurai <i>et al.</i> "PAAS 3: a computer program to determine probable sequence of peptides from mass spectrometric data." <i>Biomedical Mass Spectrometry</i> 1984; 11(8):395-399.		
	C30	Scoble <i>et al.</i> "A graphics display-oriented strategy for the amino acid sequencing of peptides by tandem mass spectrometry." <i>Fresenius Z. Anal. Chem</i> . 1987; 327:239-45.		
	C31	Siegel <i>et al.</i> "An efficient algorithm for sequencing peptides using fast atom bombardment mass spectral data." <i>Biomedical and Environmental Mass Spectrometry</i> 1988; 15:333-343.		
	C32	Watkins <i>et al.</i> "Mass spectrometry software for biochemical analysis in electrospray and fast atom bombardment modes." <i>BCSTBS</i> 1991; 19(4) 7 pp..		
	C33	Yates III <i>et al.</i> "Peptide mass maps: a highly informative approach to protein identification." <i>Analytical Biochemistry</i> 1993; 214:397-408.		

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	C34	Yates III <i>et al.</i> "Computer aided interpretation of low energy MS/MS mass spectra of peptides." 1991; Chapter 46, pp. 477-485 in <u>Techniques in Protein Chemistry II</u> , Villafranca ed., Academic Press, Inc., Boston.	

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